

# User's Manual



## DC Regulated Power Supplies

Models 382222 (12 Amp) and 382225 (25A)



## WARRANTY

EXTECH INSTRUMENTS CORPORATION warrants this instrument to be free of defects in parts and workmanship for one year from date of shipment (a six month limited warranty applies on sensors and cables). If it should become necessary to return the instrument for service during or beyond the warranty period, contact the Customer Service Department at (781) 890-7440 for authorization. A Return Authorization (RA) number must be issued before any product is returned to Extech. The sender is responsible for shipping charges, freight, insurance and proper packaging to prevent damage in transit.

This warranty does not apply to defects resulting from action of the user such as misuse, improper wiring, operation outside of specification, improper maintenance or repair, or unauthorized modification. Extech specifically disclaims any implied warranties or merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. Extech's total liability is limited to repair or replacement of the product. The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.

## Introduction

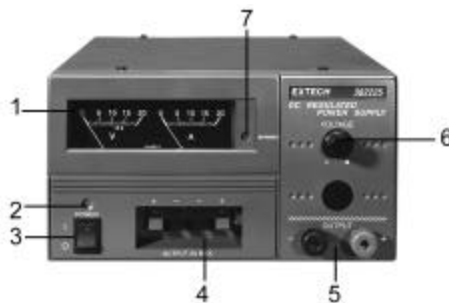
Congratulations on your purchase of the Extech DC Regulated Power Supply. These units are solid state, compact, regulated supplies suitable for many applications including bench testing, field service, hobby and telecommunication equipment use. Careful use of this device will provide years of reliable service.

## Specifications

	382222	382225
Display	Dual Analog Metering	
Voltage Output, DC	3 - 15V	
Current Output, DC	0 - 12 Amps	0 - 25 Amps
Max. Current (5 minutes)	15A	30A
Overload Indicator	Status LED	
Fuses	6A (110V), 3A (220V)	10A (110V), 5A (220V)
Ripple and Noise	<10mV	
Line Regulation	< 0.05% + 10mV	
Load Regulation	< 0.5% + 5mV	< 0.6% + 10mV
Cooling Method	Internal Fan	
Power	110/220VAC 50/60Hz (switchable)	
Dimensions	8.1 x 4.5 x 11" (205 x 115 x 280mm) (WxHxD)	
Weight	18.7lbs. (8.5 kgs)	18.7lbs. (8.5kgs)

## Meter Description

1. Voltage / Current meters
2. Power status LED
3. Power ON/OFF switch
4. Low current output terminals
5. Binding post output terminals
6. Voltage output adjustment
7. Overload status LED

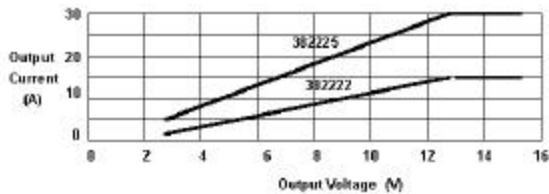


## Operation

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**CAUTION:** The snap terminal output should be used for loads of 3 amps or less. The binding post output connectors should be used when the current may exceed 3 amps.

1. The Power Supply must be powered using the rated line voltage within  $\pm 5\%$ .
2. Before turning the power supply ON, remove any load and set the Voltage Adjustment Knob to the full counter-clockwise position ('0' volt output).
3. The output current is dependent on the output voltage. See the Output Voltage/Output Current curve below.
4. The analog display indicates the actual current and voltage output.
5. Keep the cooling fan area clear of obstacles to prevent overheating. The fan will operate when the internal temperature reaches 70 degrees and will automatically shut off when the temperature drops to 40 degrees.
6. When the Overload LED Indicator lights, remove power to the power supply and troubleshoot the cause of the overload condition before powering up.



## Calibration and Repair Services

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Extech offers complete repair and calibration services for all of the products we sell. For periodic calibration, NIST certification or repair of any Extech product, call customer service for details on services available. Extech recommends that calibration be performed on an annual basis to insure calibration integrity.

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